



# LIGHTING

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*Military Handbook 1191 - Department of Defense Medical and Dental Treatment Facilities Design and Construction Criteria* has established criteria for illumination levels of various rooms. These criteria take into consideration the importance of visual performance, nature of the visual task, requirements for speed and accuracy in performing the visual task, nature or reflectance of the subject task material, and age of the occupant. These guidelines should be employed in the design or redesign of any health facility. While it may not be feasible to adjust the light level in a facility during the course of a modest remodel, facilities which are completely reworked should meet the 1191 standard.

Color rendition plays a role equally important to luminance in the rendering of care. In waiting rooms, as well as in operations spaces, color rendition should be as accurate as possible - meaning it should approximate daylight as nearly as possible. Again, consistency in color rendition of lamps among fixtures in a room is critical.

One side bar to the discussion on lighting here has to do specifically with the operation of fluorescent lights in Germany. Many of the facilities surveyed have fixtures in offices and exam rooms which may take as much as ten seconds to light. Because of the success level of the "lights out on exit" program, it can be disorienting to walk into a room, throw a switch and not see an immediate response, especially if one is used to U.S. standards. Evidently this delay is common in Europe due to standardization on a ballast that requires warm-up. It may be possible to replace these fixtures with a faster unit, or, to put some spaces on motion detectors to allow for lights to come on automatically when someone enters a room, and turn off automatically upon exiting.

## Specification

Lighting fixtures selected are based upon criteria appropriate to intended use. The general lighting fixtures currently in use may be matched, provided they are energy efficient and provide an even level of illumination without harsh shadows or cut-off. New general lighting fixtures should be based upon a 61x61cm (2x2ft) fluorescent fixture when all new fixtures are being specified, or when such fixtures meeting quality standards exist. Fixtures should be recessed in lay-in ceilings or new hard surface ceilings and surface-mounted on existing hard-surface ceilings. Lenses should be prismatic translucent plastic in overhead applications, milk-white translucent in wall-mount applications. Decorative lighting should also be based upon a fluorescent fixture wherever possible. Decorative fixtures should be heavy construction with thick glass or polycarbonate lenses where required. Accent lighting such as wall washers and down lights should also be based upon a fluorescent fixture, with specular alzac baffles. Wall-mounted general lighting, such as at hand sinks, should be provided with a milk-white translucent lens (as opposed to transparent prismatic) or a face plate to reduce glare and harshness.

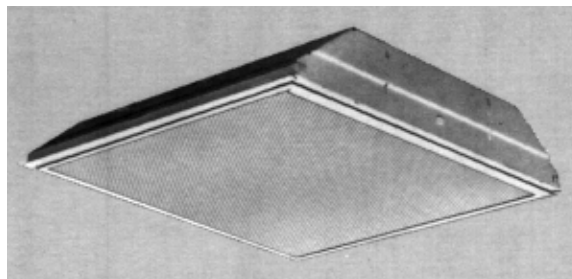
The following light fixture selections are typical and meant to set direction only. Manufacturer information is supplied for reference if desired. In addition, a cut sheet is provided for the Lightolier Medilyte patient room light.

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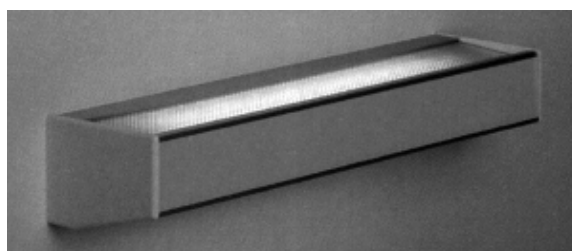
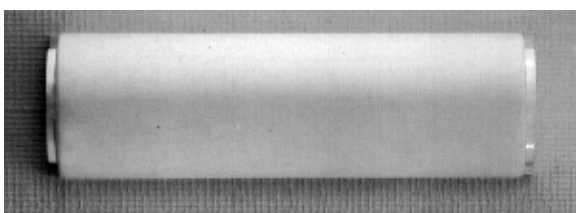
## Manufacturer's Representation

Originating	Corporate
<b>Bega Lighting</b> Great Plains Lighting Corp Jerry Gill Phone: (1) 402 / 592-4487 Fax: (1) 402 / 592-4572	Bega Lighting Customer Service (1) 805 / 684-0533 (1) 805 / 684-6682
<b>Eurofase</b> Ketzner Enterprises Inc. Howard J. Ketzner Phone: (1) 402 / 892-4900 Fax: (1) 402 / 892-8148	Eurofase Customer Service (1) 305 / 968-7225 (1) 305 / 968-72258
<b>Flos</b> Steve Maturo + Associates Steve Maturo Phone: (1) 816 / 531-7661 Fax: (1) 816 / 531-2011	Flos Customer Service (1) 515 / 549-2745 (1) 515 / 549-4220
<b>Illuminating Experiences</b> Great Plains Lighting Corp Jerry Gill Phone: (1) 402 / 592-4487 Fax: (1) 402 / 592-4572	Illuminating Experiences Customer Service (1) 908 / 745-5858 (1) 908 / 745-9710
<b>Lightolier</b> Illuminating Systems Eric Naylor Phone: (1) 402 / 339-0119 Fax: (1) 402 / 339-7513	Lightolier Customer Service (1) 201 / 864-3000 (1) 201 / 864-9478
<b>Reggiani</b> Great Plains Lighting Corp Jerry Gill Phone: (1) 402 / 592-4487 Fax: (1) 402 / 592-4572	Reggiani Customer Service (1) 914 / 565-8500 (1) 914 / 561-1130
<b>SPI Lighting</b> AES Lighting Group Steve Hutchings Phone: (1) 402 / 330-7810 Fax: (1) 402 / 398-9599	SPI Lighting Customer Service (1) 414 / 242-1420 (1) 414 / 242-6414
<b>Visa Lighting</b> AES Lighting Group Steve Hutchings Phone: (1) 402 / 330-7810 Fax: (1) 402 / 398-9599	Visa Lighting Customer Service (1) 414 / 354-6600 (1) 414 / 354-7436
<b>Vista Lighting</b> Creative Lighting and Associated Systems Bill Oliver Phone: (1) 402 / 593-8710 Fax: (1) 402 / 593-6420	Vista Lighting Customer Service (1) 714 / 241-3444 (1) 714 / 241-3449

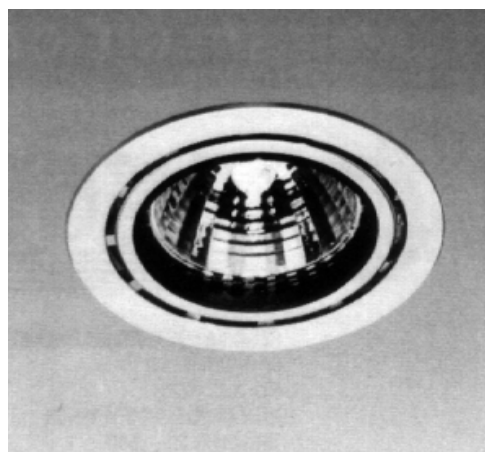
Direct Overhead Lighting for General Application



Wall-mount Task Lighting for use at hand sinks and mirrors



Recessed Accent Lighting for use above transaction counters



### Wall-Mount Decorative Lighting



### Patient Room Lighting

